

Scale Drawings and Scale Models

Vocabulary

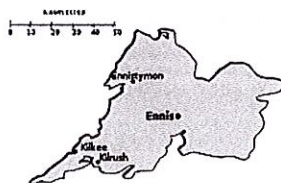
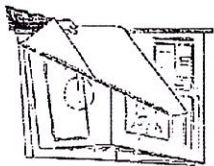
scale drawing: proportional 2 dimensional drawing of an object (smaller or larger)

scale model: proportional 3 dimensional model of an object (smaller or larger)

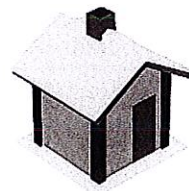
scale factor: a ratio of the model/drawing's dimensions to the actual object's dimensions in simplest form

scale: ratio between 2 sets of measurements

Examples of Scale Drawings



Examples of Scale Models



Finding Scale Factor

$$\frac{\text{model/drawing dimensions}}{\text{actual object dimensions}}$$

A scale factor is Always the ratio of the model/drawing dimensions to the actual object's dimensions.

It's alright to have a scale factor greater than 1. If the scale factor is greater than 1, this means that the new figure is bigger than the original (think about cells). If the scale factor is less than 1, then the new figure is smaller than the original (think about model airplanes).